SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH
COMPLIANCE ASSESSMENT

TO:	Karen G. J'Anthony, Environmental Program Manager I, SHWMB
FROM:	Bruce B. Cole, SHWMB
DATE:	October 2, 2007
SUBJECT:	CA at International Petroleum Corp. of Delaware (IPC)
REFERENCE:	DED984073692, FILE CODE: 21

GENERATOR SITE ADDRESS:	505 S. Market Street Wilmington, DE 19801
GENERATOR MAILING ADDRESS:	Same
SITE REPRESENTATIVES:	Tim Ford, Branch Manager Glen Carr, Plant Operations Manager
SHWMB REPRESENTATIVES:	Bruce B. Cole and Melissa Ferree
DATE OF ASSESSMENT:	August 7, 2007
PURPOSE OF ASSESSMENT:	Compliance Assessment
CURRENT FACILITY STATUS:	LQG and Used Oil Processor/Re-Refiner
NOTIFIED FACILITY STATUS:	LQG

All information included in this report results from statements made during the assessment by the company's site representative and information provided by this representative, as well as a review of the company's hazardous waste site records maintained by the SHWMB.

PRE-ASSESSMENT SAFETY PREPARATION:

Prior to the site visit, hazardous waste manifests were reviewed. On the basis of the manifest review for the years 2005, 2006 and 2007, it was determined that the generator was a LQG.

It was determined that the safety equipment of steel toed boots, safety glasses and hard hats would be adequate under normal operating conditions at the site.

FACILITY DESCRIPTION:

International Petroleum Corp. of Delaware (IPC) is a Wilmington, Delaware-based used oil processor/re-refiner. IPC was purchased by US Filter, which is a Siemens Company. Used oil and contaminated petroleum products are collected from automobile lube shops, truck/auto repair, recycling centers, and various industrial sources and recycled into fuel oil products. At times, IPC receives a contaminated load referred to as a "hot load" and the load must be shipped out as hazardous waste.

The facility is located on approximately seven (7) acres of industrial property in Wilmington, Delaware. The facility is bordered by the Christiana River to the west, a petroleum distribution terminal (Shellhorn and Hill) and a Bank One parking lot to the north, a lumber yard (Collins Lumber) to the south, and South Market Street to the east.

PROCESS DESCRIPTION:

Feedstock, comprised of oil, oil/water mixtures, or petroleum products, are received from various road transportation waste haulers. Upon receipt, the material is sampled and analyzed to determine constituent content of halogens, metals and PCBs.

Once approved for use as feedstock, the material is directed to bulk storage or direct processing dependent upon feedstock demand. The production process begins with a series of units designed to separate the water fraction from the usable oil. Separation is first conducted in an equalization oil skim tank, followed by chemical treatment, and finally air flotation. The recovered oil is directed to further processing and the wastewater is monitored prior to discharge via POTW.

Recovered petroleum products are further dewatered through an atmospheric dehydrator operation at 250°F and 2.0 PSIG. Recovered oil is routed to a vacuum dehydrator operation at 325°F and a pressure of 26 Hg. From this unit, a material comparable to a Number 4 fuel oil is produced. The fuel produced is acceptable for direct marketing and accounts for the majority of the facility's salable product.

Offgases produced from the operation of the two dehydrators are further processed through a series of condensers and separators. These units further separate wastewater from lighter fractions of petroleum based materials. Removed water is entered in the water separation process prior to the equalization oil skim tank. Recovered petroleum products are further processed to produce a product equivalent to a Number 2 fuel oil. This product is also acceptable for direct sale to customers. The lightest fraction (Number 1 fuel oil, Number 2 fuel oil, and recovered vapor gas), however, is used onsite as an energy source supplement to serve the facility hot oil system.

IPC also operates a used oil filter recycling program. Used oil filters are collected from body and service shops, transported to the IPC location and consolidated for recycling by Chesapeake Environmental Services.

SITE OBSERVATIONS:

Maintenance Shop

The maintenance shop is no longer used for vehicle and/or equipment maintenance. All truck maintenance and repair is conducted off-site by Penske Trucking. The Maintenance Shop is now mainly being utilized for equipment storage.

IPC collects waste lamps and accumulates them in the Maintenance Shop as universal waste. At the time of the assessment, no used lamps were observed.

Oil Sample Lab

Every truck load is sampled when it enters the facility. Samples are brought to the lab in plastic containers. Oil is tested for metals content using an ICP Emission Spectrometer. The spectrometer uses Exxsol, a non-hazardous petroleum distillate.

Oil samples are also run through a gas chromatograph. The gas chromatograph utilizes several solvents (hexanes, acetone, methanol, ethanol, isooctane, and methylene chloride) in very small doses. The hazardous waste solvent is satellite accumulated in a small glass bottle. At the time of the assessment, the jar was labeled "Waste Solvent" and closed.

The remaining used oil samples are collected in a 5 gallon poly container labeled "Used Oil".

No violations were observed.

Tank Farm

At the time of the assessment, above ground tanks numbered 1, 2, 3, 4, 5, 6, 11, 12, and 13 were identified as potentially managing used oil. The tanks were labeled "Used Oil" and appeared to be in good condition. No violations were observed.

Used Oil Filter Area

IPC collects used oil filters from service shops in Delaware, Maryland and Pennsylvania. The filters are brought back to the IPC facility where they are transferred to larger containers (consolidation). When enough filters have been collected to facilitate a shipment, the filters are transported to Chesapeake Environmental Services in Baltimore, Maryland for recycle. Approximately 500 drums of used oil filters are collected annually by IPC.

Antifreeze

IPC collects used antifreeze from service shops in Delaware, Maryland and Pennsylvania at no charge. The antifreeze is offloaded into an aboveground storage tank for consolidation. When enough used antifreeze has been collected to facilitate a shipment, the used antifreeze is transported to a Siemens antifreeze recycling facility in Rockville, Virginia for distillation.

As a source separated material, consolidation of used antifreeze is exempt from the transfer station requirements per the DRGSW §(a)(2)(a).

Oily Debris

Oily debris, such as used oil dry, used oil booms, used oil rags and tanker truck heels are collected in roll-off containers with poly liners. As used oil pools in the bottom of the roll-offs, the used oil is pumped off and sent for processing. Once all used oil is collected, the oil contaminated solid material is sent to Lancaster Solid Waste Authority for energy recovery. At the time of the assessment, two used oil debris roll-offs were not labeled used oil. These are violations of the *Delaware Regulations Governing Hazardous Waste* (DRGHW) §279.54 (f)(1) which states:

> *"Containers and aboveground tanks used to store or process used oil at processing and re-refining facilities must be labeled or marked clearly with the words "Used Oil"."*

In the area of the Unloading Bay, two open top steel 55 gallon drums are utilized to accumulate used oil. At the time of the assessment, the two used oil drums were not labeled "Used Oil". These are violations of the DRGHW §279.54 (f) (1) which states:

> *"Containers and aboveground tanks used to store or process used oil at processing and re-refining facilities must be labeled or marked clearly with the words "Used Oil"."*

Aerosol Cans

Very few aerosol cans are utilized on-site. All generated empty aerosol cans will be managed as a scrap metal with the Delaware Solid Waste Authority recycling program.

Rags

Used cloth rags used throughout the facility are sent offsite for laundering with Cintas.

FACILITY RECORD ASSESSMENT:

All IPC manifests have been retained onsite for 2006. There were no hazardous waste shipments in 2005 and 2007. Both waste profiles and LDRs are maintained with the appropriate manifest. No violations were observed.

Annual Hazardous Waste Reports have been maintained onsite for 2006. No violations were observed.

The facility's contingency plans consist of two separate plans titled "Fire Protection and Emergency Action Plan" and "Spill Prevention, Control and Countermeasure Plan". IPC considers these two plans to be their integrated contingency plan.

IPC's integrated contingency plan identified Russell Kominski as the first alternate emergency coordinator. Russell Kominski left IPC employment in December of 2006. This is a violation of the DRGHW §265.54 which states:

"The plan must be reviewed, and immediately amended, as necessary, whenever:

The facility changes in its design, construction, operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous constituents, or changes the response necessary in an emergency;

The list of emergency coordinators change;"

This is also a violation of the DRGHW §279.52 (b)(4) which states:

"Owners and operators of used oil processors and re-refiners facilities must comply with the following requirements:

Amendment of contingency plan. The contingency plan must be reviewed, and immediately amended, if necessary, whenever:

The list of emergency coordinators changes;"

IPC could not provide documentation that all employees handling hazardous waste participated in hazardous waste training in 2006. This is a violation of the DRGHW, §265.16 (c) which states:

"Facility personnel must take part in an annual review of the initial training required in paragraph (a) of this section."

Glen Carr replaced Russell Kominski in January of 2007. At the time of the assessment, Mr. Carr has not participated in initial hazardous waste training. This is a violation of DRGHW, §265.16(b), which states:

"Facility personnel must successfully complete the program required in paragraph (a) of this Section within six months after the date of their employment..."

On the day of the assessment, facility representatives were unable to provide a list of employees, their job titles and job descriptions having responsibilities related to the management of hazardous waste. This is a violation of DRGHW, §265.16(d)(1) and (2), which states:

"The owner or operator must maintain the following documents and records at the facility:

(1) The job title for each position at the facility related to hazardous waste management and the name of the employee filling each job..."
(2) A written job description for each position listed under paragraph (d)(1) of this section. This description may be consistent in its degree of specificity with description for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualification, and duties of facility personnel assigned to each position;"

On the day of the assessment, the facility has not submitted a used oil annual report for 2006. This is a violation of the DRGHW, §279.57 (b) which states:

"A used oil processor/re-refiner must report to the Secretary, in the form of a letter, on an annual basis (by March 1 of each year), the following information concerning used oil activities during the previous calendar year;

(1) The EPA identification number, name, and address of the processor/re-refiner;
(2) The calendar year covered by the report; and
(3) The quantities of used oil accepted for processing/re-refining and the manner in which the used oil is processed/re-refined, including the specific processes employed."

LDR ASSESSMENT:

During the assessment, Land Ban documentation was reviewed for hazardous waste manifests. No LDR violations were observed.

IDENTIFIED VIOLATIONS:

	DRGHW VIOLATION	DESCRIPTION
1.	DRGHW, §265.16 (d)(1)	Failure to maintain list of names and job titles of employees.
2.	DRGHW, §265.16 (d)(2)	Failure to maintain job descriptions.
3.	DRGHW, §265.16 (b)	Failure to train new employees within 6 months of employment.
4.	DRGHW, §265.16 (c)	Failure to conduct annual training.
5.	DRGHW, §279.52 (b)(4)	Failure to update used oil contingency plan.
6.	DRGHW, §265.54	Failure to update the hazardous waste contingency plan.
7.	DRGHW, §279.57 (b)	Failure to submit an annual used oil report for 2006.
8.	DRGHW, §279.54 (f)(1)	Failure to label "Used Oil".

CORRECTED VIOLATIONS:

The below DRGHW violation observed during the August 7, 2007 CA, has been corrected to the satisfaction of the SHWMB. This conclusion is based on actions taken by IPC at the time of the assessment.

DATE	DRGHW VIOLATION	DESCRIPTION
8/7/07	DRGHW, §279.54 (f)(1)	Labeled Used Oil containers.
8/10/07	DRGHW, §279.57 (b)	2006 Used Oil Annual Report.

POLLUTION PREVENTION ASSESSMENT:

Fluorescent lamps are in the process of being switched to low mercury lamps. Currently all fluorescent lamps are managed as a Universal Waste.

Used cloth rags used throughout the facility are sent offsite for laundering with Cintas.

IPC collects used antifreeze from service shops in Delaware, Maryland and Pennsylvania at no charge. The antifreeze is offloaded into an aboveground storage tank for consolidation. When enough used antifreeze has been collected to facilitate a shipment, the used antifreeze is transported to a Siemens antifreeze recycling facility in Rockville, Virginia for distillation.

Very few aerosol cans are utilized on-site. All generated empty aerosol cans will be managed as a scrap metal with the Delaware Solid Waste Authority recycling program.

RECOMMENDATIONS:

A Notice of Violation is recommended for the violations observed during the August 7, 2007 DRGHW CA.

In addition, the SHWMB will meet with facility representatives to discuss the on-site management of collected used oil filters, pursuing a Notice of Violation if applicable.

KGJ:BBC: jmr
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Manifest Details By Site

Report Generated On: Monday, July 20, 2009

INTERNATIONAL PETROLEUM CORP

DED984073692

505 S MARKET ST
WILMINGTON, DE 19801

(302) 222-2511
Contact: RICHARD J KANE SR

Date	Manifest #	Line #	UN Code	Description:	No:	Type:	Total:	Unit:	Waste #:	Handling Code:
1/16/2009	000130558VES	1A	UN1992	Flammable liquids, toxic, nos.	3	DM	1200	LBS	D001 D008	
2/6/2009	000096094VES	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	3800	GAL	F001 D039	
5/4/2009	000327346VES	1A	UN1992	Flammable liquids, toxic, nos.	1	DM	275	LBS	F002 D001	

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505 S MARKET ST
WILMINGTON, DE 19801

(302) 222-2511
Contact: RICHARD J KANE SR

Date	Manifest #	Line #	UN Code	Description:	No:	Type:	Total:	Unit:	Waste #:	Handling Code:
2/8/2008	000238939VES	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	3000	GAL	F001 D040	
12/8/2008	005395583JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018 D039	
12/9/2008	005395584JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018 D039	
12/10/2008	000192669VES	1A	UN1993	Flammable liquids, n.o.s.	1	TT	4045	GAL	D001 D008	
	005395597JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018 D039	
12/11/2008	005395596JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	4158	GAL	D018 D039	
12/12/2008	005395595JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	4269	GAL	D018	
12/15/2008	005395585JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018	
12/16/2008	000192668VES	1A	UN1993	Flammable liquids, n.o.s.	1	TT	5000	GAL	D001 D018	
	005395586JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018	
12/17/2008	005395587JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018	
	005395588JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	2856	GAL	D018	
12/18/2008	005395589JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	3579	GAL	D018	
12/19/2008	05395594JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	2251	GAL	D018 D039	
12/22/2008	005395590JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	5000	GAL	D018	
12/23/2008	000192663VES	1A	UN1993	Flammable liquids, n.o.s.	1	TT	32200	LBS	D001 D018	
	005395666JJK	1A	NA3077	Hazardous waste, solid, nos.	1	CM	22	ST	D018	
12/29/2008	005395668JJK	1A	NA3082	Hazardous waste, liquid, nos.			5000	GAL	D018 D039	
12/30/2008	005395678JJK	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	4406	GAL	D018	

12/8/08 005395523 JJK TT 41,320 Gal D018, D039

12/10/08 005395505 JJK TT 43,800 Gal D018, D039

~~12/8/08~~

12/10/08 005395505 JJK TT 43,800 Gal D018, D039

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(302) 222-2511
Contact: RICHARD J KANE SR

Date	Manifest #	Line #	UN Code	Description:	No:	Type:	Total:	Unit:	Waste #:	Handling Code:
12/5/2007	000157678VES	1A	NA3082	Hazardous waste, liquid, nos.	1	TT	3166	GAL	F001 D040	